

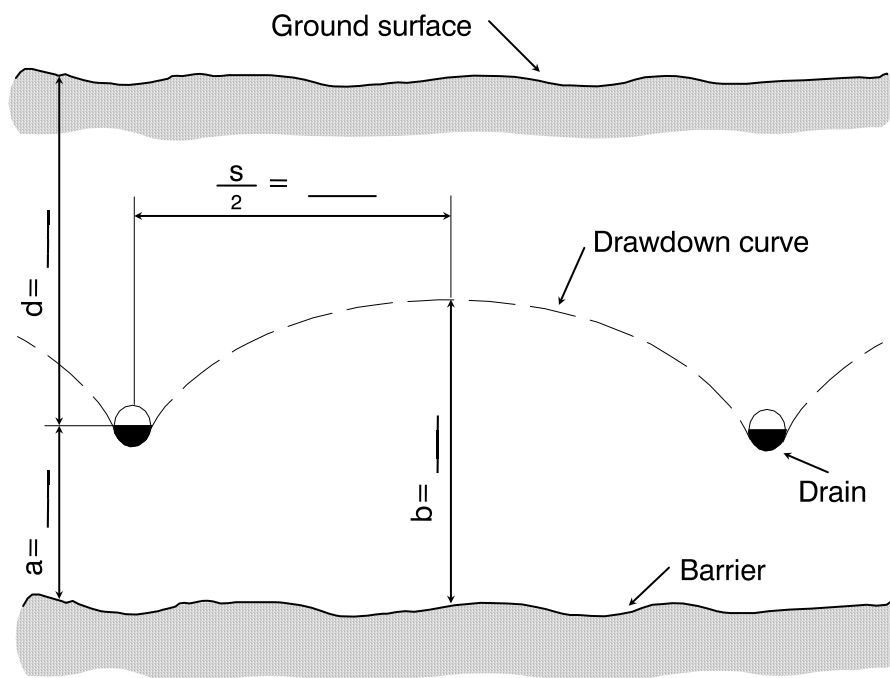
## SUBSURFACE DRAIN DATA SHEET

Cooperator: \_\_\_\_\_ Location: \_\_\_\_\_

Conservation District: \_\_\_\_\_ Field Office: \_\_\_\_\_

Identification No.: \_\_\_\_\_ Field No.: \_\_\_\_\_ Item No. \_\_\_\_\_

1. Design area: \_\_\_\_\_ acres
2. Required removal rate ( $Q_d$ ): \_\_\_\_\_ in/hr
3. Design soil series: \_\_\_\_\_
4. Hydraulic conductivity (P): \_\_\_\_\_ in/hr
5. Depth to barrier: \_\_\_\_\_ ft
6. Depth of drain (d): \_\_\_\_\_ ft
7. Depth of outlet: \_\_\_\_\_ ft



Sketch and nomenclature used in ellipse equation

Where: a = depth from drain to barrier (ft)  
b = depth from drawdown curve to barrier (ft)  
d = depth of drain (ft)  
S = drain spacing (ft)

$$S = \sqrt{\frac{4P(b^2 - a^2)}{Q_d}} = \sqrt{\frac{4(\quad)(\quad - \quad)}{\quad}} = \quad \text{ft}$$
[illegible]

<sup>2/</sup> From Exhibit 14-13 NEFH or compute from equation:  $d_i^{8/3} = \frac{(Q)(n)}{(0.000614) s^{1/2}}$

Designed by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Checked by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved by: \_\_\_\_\_ Date: \_\_\_\_\_